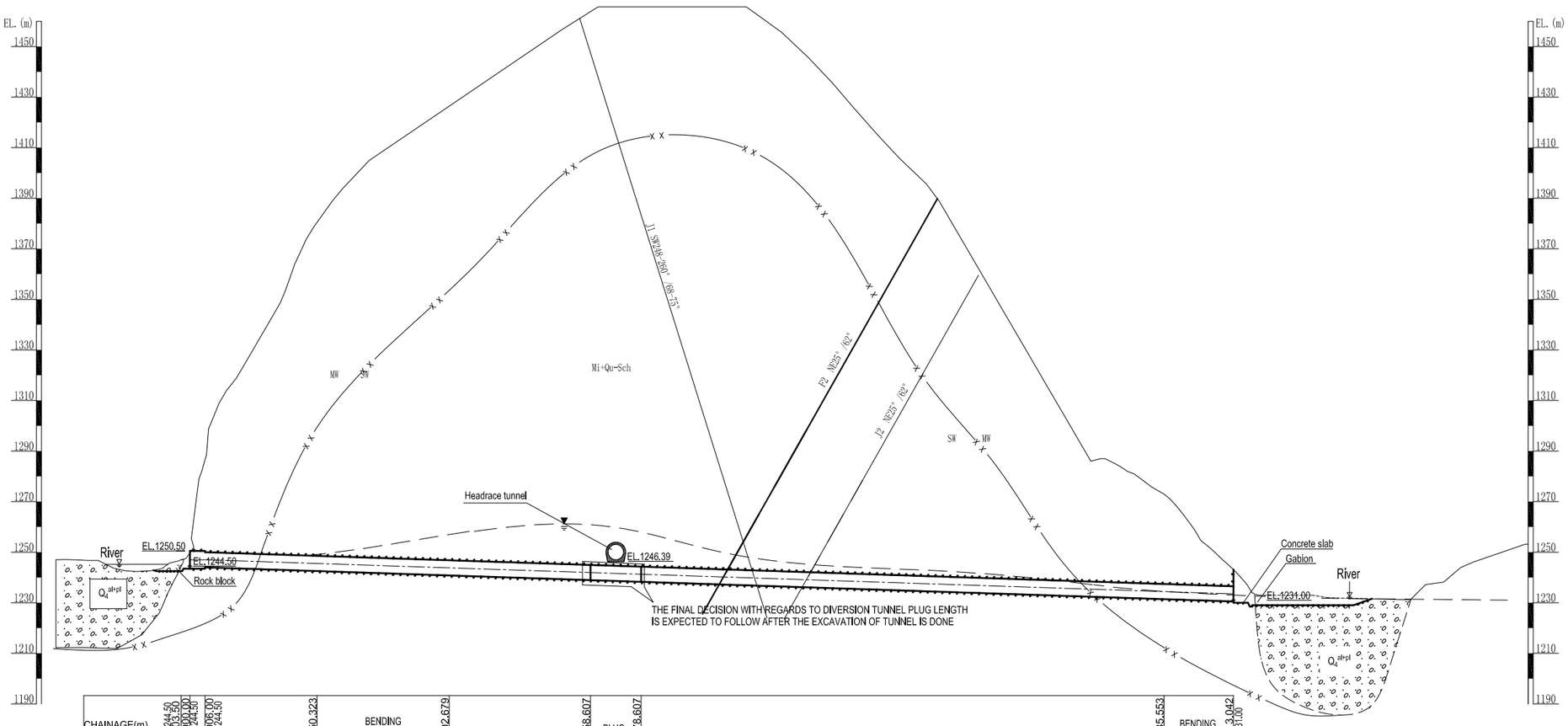
LONGITUDINAL PROFILE OF DIVERSION TUNNEL

SCALE 1:1000



CHAINAGE(m)	EL.1244.50 D0-003.850	D0+000.000 EL.1244.50	D0+006.00 EL.1244.50	D0+050.323	BENDING SECTION	D0+102.679	D0+158.607	PLUG	D0+178.607	D0+385.553	BENDING SECTION	D0+413.042 EL.1231.00
Gradient	0%	3.32%										
Rock class type	III			III~II					IV	III		IV
Support type	D	C	B	A~B				E	A~B	C	B	C
Drainage hole	No weep hole before chainage D0+050.000			Weep hole,@3.0m×3.0,Ø45mm,0.5m In rock after chainage D0+050.000								
Typical cross section	D0+000.000 D5	D0+006.00 D3	D0+020.00 D2	D0+064.115 D1-D2			D0+156.607 D4	D0+178.607 D1-D2	D0+207.590 D3	D0+226.935 D2		D0+346.500 D3 D0+413.042

NOTE

1. This set of drawings are the outline of diversion tunnel.
2. All dimensions are in millimeters, and coordinates, chainages & elevations are in meters.
3. Symbol description:
   A-Line is the design excavation line.
   D denotes deformed bar, yield strength of the deformed bar is 500MPa;
4. Strength specification of concrete & shotcrete:
   (1) Concrete class E: Cylinder specified compressive strength 24MPa at 28 days.
   (2) Shotcrete: Cylinder specified compressive strength 25MPa at 28 days.
5. Grouting requirement: consolidation grouting pressure should be determined according to surrounding rock condition and grouting experiment. Consolidation grouting hole is no less than 47.5mm.
6. The construction joints shall be determined by constructor according to construction technology, the rebar shall be continued at construction joint.

REFERENCE DRAWINGS

UT1-C-010-CVL-DG-42003	EXCAVATION AND INITIAL SUPPORT DRAWING OF DIVERSION TUNNEL

SYMBOL AND LEGEND

FOR APPROVAL

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REV. NO.	DATE	DESCRIPTION	DRAWN	CHKD.	APPD.
0A	15.MAR,2022	FIRST ISSUE	DONG Z.Z.	LEI Y.G.	HAN J.B. LUO L.

PROJECT TITLE

Upper Trishuli-1 HEP (216MW)

OWNER

NWEDC NEPAL WATER AND ENERGY DEVELOPMENT CO. PVT. LTD.

OWNER'S ENGINEER

TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

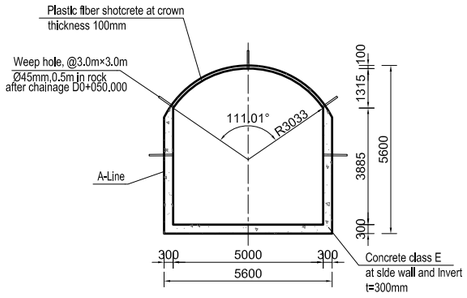
OUTLINE DRAWING OF DIVERSION TUNNEL(1/2)

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42005-1	1 OF 2	0A

A1 (594 x 841 MM)

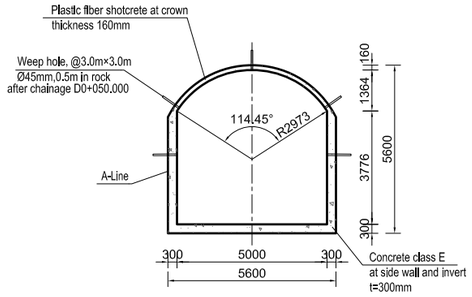
TYPICAL CROSS SECTION D1
(for rock class II)

SCALE 1:100



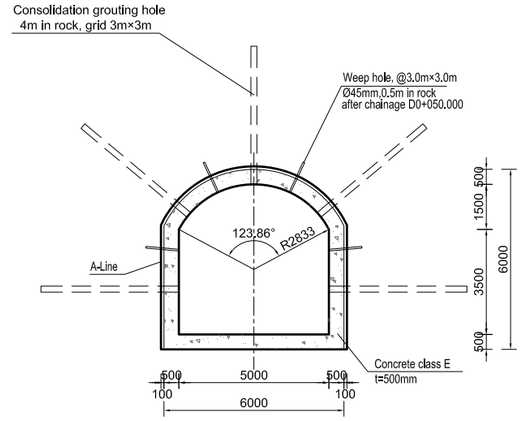
TYPICAL CROSS SECTION D2
(for rock class III)

SCALE 1:100



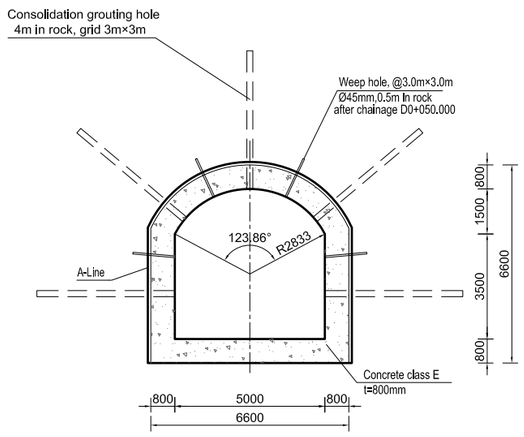
TYPICAL CROSS SECTION D3
(for rock class IV)

SCALE 1:100



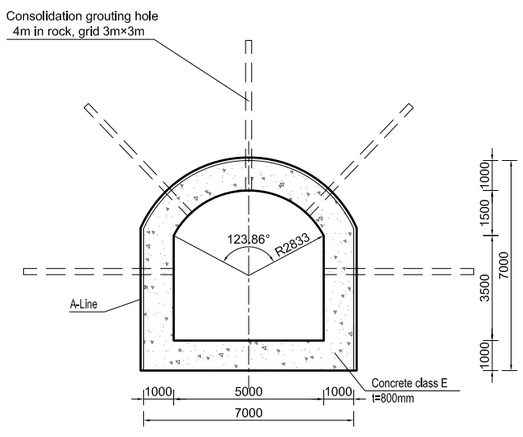
TYPICAL CROSS SECTION D4
(for intersection of headrace and diversion tunnel)

CHAINAGE D0+158.607-D0+178.607
SCALE 1:100



TYPICAL CROSS SECTION D5
(for inlet section)

CHAINAGE D0+000.00-D0+006.00
SCALE 1:100



SCALE:
1:100
0 1 2 3 4 5m

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SYMBOL AND LEGEND

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TRACTEBEL ENGIE jade CONSULT

CONTRACTOR

DOOSAN Doosan Heavy Industries & Construction

DRAWING TITLE

OUTLINE DRAWING OF DIVERSION TUNNEL(2/2)

INDEX	DRAWING NUMBER	SHEET NO.	REV. NO.
A	UT1-C-010-CVL-DG-42005-2	2 OF 2	0A

A1 (594 x 841 MM)